02-23-04



## **EXPRESS MAIL CERTIFICATE**

"Express Mail" Label No.

EV 127 541 682 US

Serial No.

10/660,131

Applicant(s)

Munn, David H.

Filing Date

September 11, 2003

Zitle:

Chemokine Receptor Antagonists as Therapeutic Agents

Examiner

Unassigned

Group Art Unit

Unassigned

Type of Document(s)

Express Mail Certificate (No. EV 127 541 682 US);

Transmittal Form PTO/SB/21;

Supplemental Information Disclosure Statement (in dup.);

References (106 Copies);

Supplemental IDS Form PTO/SB/08A; and

Return Postcard

I hereby certify that the documents identified above are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the Assistant Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Kay Harmer (signatur

Date of Deposit: February 18, 2004

Please type a	nluc	cian	/ــ/	incido	thic	hov		+	
rlease type a	plus	sign	(+)	ınsıde	เกเร	DOX	$\overline{}$		

EV 127 541 682 US PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

-						
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TRANSMITTAL		Application Nun	nber	10/660,131	
OFFI	TRANSMITTAL FORM r all correspondence af	-	Filing Date		September 11, 2003	
The housed to	r all aarmanandanaa af	tor initial filing)	First Named Inv	entor	Munn, David H.	
ocyto be used to	r all correspondence all	er muar ming)	Group Art Unit		Unassigned	
			Examiner Name	;	Unassigned	
Total Number (including Tran	of Items in This Submis	sion	Attorney Docker	Number	M0351/287806	
(including train	ionnitian'i Orinj	ENCLOSUR	RES (check all th	at apply)		
☐ Extension of	ched / Response al /declaration(s) Time Request andonment Request Disclosure cate) by of Priority	Assignme (for an Ap) Drawing(s Licensing- Petition Petition to Provision Power of A Change of Request for	nt Papers plication)  related Papers Convert to a al Application Attorney, Revocation Correspondence Disclaimer	on Address	☐ After Allowance Communication Group ☐ Appeal Communication to Board Appeals and Interferences ☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☑ Other Enclosure(s) (please identify below): Express Mail Certificate – EV 127 541 682 US PTO/SB/08A References: 106 Return Postcard	d of
Response to Incomplete A  Response Parts und 1.52 or 1.	Application e to Missing er 37 CFR	Remarks		<del></del>		
	SIGNA	L TURE OF APP	LICANT, ATTOR	RNEY OR	AGENT	
Firm <i>or</i> Individual nam	Cynthia B. Rothso	child, Esq.		are i, oil	AGEN1	
Signature	Call 1	S RA				
Date	February 18, 200		A SAME OF A STATE OF THE SAME	20000 100		
I harab itt			ICATE OF MAIL			
i nereby certify t	nat this correspondence is	being aeposited	with the United St	ats Postal S	Service s first class mail in an envelop	pe
	ssistant Commissioner for	· · · · · · · · · · · · · · · · · · ·		on this date	e:	!_
Typed or printe	ed name   SENT VIA	A EXPRESS MA	AIL			
Signature			-	Date	;	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : David H. Munn Serial No. : 10/660,131

Filed: September 11, 2003

For : CHEMOKINE RECEPTOR ANTAGONISTS AS

THERAPEUTIC AGENT

Examiner : Unassigned Group Art Unit : Unassigned

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants submit herewith on Form PTO/SB/08A a listing of one-hundred six (106) documents known to the Applicants and/or their attorney. Applicants respectfully request consideration of the cited documents and making the same of record in the prosecution of the above-identified application. In so doing, Applicants do not waive any rights to appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the present application, or to establish that such references are not prior art. Copies of the documents are enclosed, numbered and labeled for identification purposes except for item 66 which is a book.

This statement should not be construed as a representation that more material information does not exist or that a search of the relevant art has been made. It is respectfully requested that the references listed on the attached form PTO/SB/08A be expressly considered by the Examiner, made of record in the application, and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being submitted prior to the mailing of a first substantive Office Action in this application, and, therefore, no certification or fee is required (37 C.F.R. § 1.97b(3)). However, should any fees be due, the Commissioner is authorized to charge such fees to Deposit Account No. 16-1435. A duplicate of this sheet is attached for that purpose.

Respectfully submitted,

Date:

2-18-04

Cynthia B. Rothschild, Re. No. 47040

KILPATRICK STOCKTON LLP

1001 West Fourth Street

Winston-Salem, North Carolina 27101-2400

(336) 747-7541 Phone

(336) 607-7500 Facsimile

Attorney Docket No.: M0351-287806

M0351-287806 WINLIB01:1032834.1

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

INFORMATIO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 9

Complete if Known							
10/660,131							
September 11, 2003							
David H. Munn							
Unassigned							
Unassigned							
M0351-287806							
EV 127 541 682 US							
	10/660,131 September 11, 2003 David H. Munn Unassigned Unassigned M0351-287806						

		<del>.</del>	U.S. P	ATENT DOCUMENTS		
Examiner Initials*	Cite No.1	U.S. Patent Docu	ment Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1.,	5,582,831		Shinitzky, Meir	12/10/96	rigules Appeal
	2.	5,648,219		MacKay, V.L. et al.	07/15/97	
	3.	5,849,589		Tedder, T.F. et al.	12/15/98	
	4	5,851,756		Steinman, R.M. et al.	12/22/98	
	5 ,	5,871,728		Thomson, A.W. et al	02/15/99	
	6	5,994,126		Steinman, R.M. et al.	11/30/99	
	7.	6,008,004		Olweus, Johanna et al	12/28/99	
	8	6,080,409		Laus, R. et al.	06/27/00	
	9	6,194,204		Crawford, K.D. et al.	02/27/01	
	10	6,210,662		Laus, R. et al.	04/03/01	
	11	6,224,859		Thomson, A.W. et al.	05-01-01	
	12	6,228,640		Cezayirli, C. et al.	05/08/01	
	13	6,274,378		Steinman, R.M. et al	08/14/01	
	14	6,290,972	B1	Armitage, R.J. et al.	09/18/01	
	15.	6,395,876		Munn, D. et al.	05-28-02	
	16	6,451,840	B1	Munn, D. et al.	09-17-02	
	17.	2001/0001040 A1	)	Munn, D. et al.	05-10-01	
		_				

	FOREIGN PATENT DOCUMENTS								
		Fo	reign Patent Do	cument					
Examiner Initials*	Cite No. <sup>1</sup>	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ°	

Examiner	1000000	Date	
Signature	7.00.00	Considered	
	The state of the s		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

sign (+) inside this box

+ PTO/SB/O8A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449APTO					Complete if Known			
		, ,0, , 0			Application Number	10/660,131		
INIE		8 A T14	ON F	NECL OCUPE	Filing Date	September 11, 2003		
INFORMATION DISCLOSURE					First Named Inventor	David H. Munn		
ST	ATEI	MEN.	T BY	' APPLICANT	Group Art Unit	Unassigned		
	6				Examiner Name	Unassigned		
(use as many sheets as necessary)				as necessary)	Attorney Docket Number	M0351-287806		
Sheet	2	of	9		Express Mail Certificate	EV 127 541 682 US		

Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	T <sup>2</sup>
nitials*	No. <sup>1</sup>	publisher, city and/or country where published.	1,
	18	ALBERT, M. L., Dendritic cell maturation is required for the	
		cross-tolerization of CD8 <sup>+</sup> T cells, <i>Nature Immunol.</i> , <b>2</b> , 1010-	
		1017, 2001	
	19	ALEXANDER, A. M. et al., Indoleamine 2,3-Dioxygenase	
		expression in transplanted NOD islets prolongs graft survival	
		after adoptive transfer of diabetogenic splenocytes, Diabetes,	
		<b>51</b> :356-364, 2002	
	20	BANCHEREAU, J. et al., Immune and clinical responses in	
		patients with metastatic melanoma to CD34 <sup>+</sup> progenitor-	
		derived dendritic cell vaccine, Cancer Res., 61, 6451-6458,	
		2001	
	21	BANKENSTEIN, T. et al, Cross-priming versus cross-	
		tolerance: are two signals enough?, Trends in	
		Immunol., <b>23</b> , 171-173, 2002	
	22	BAX, A. et al., MLEV-17-based two-dimensional homonuclear	$\vdash$
		magnetization transfer spectroscopy, <i>J. Magn. Reson.</i> , <b>65</b> :	
		355-360, 1985	
	23	BELL, D. et al., In breast carcinoma tissue, immature dendritic	╁
	]	cells reside within the tumor, whereas mature dendritic cells	
		are located in peritumoral areas, <i>J. Exp. Med.</i> , <b>190</b> , 1417-	
		1426, 1999	
	24	BENNETT, S. R. et al., Help for cytotoxic-T-cell responses is	<del> </del>
	- '	mediated by CD40 signalling, <i>Nature</i> , <b>393</b> , 478-480, 1998	
	25	BODENHAUSEN, G. et al., Natural abundance Nitrogen-15	1
	-	NMR by enhanced heteronuclear spectroscopy, Natural Chem.	
		Phys. Lett., <b>69:</b> 185-189, 1980	
	26	CADY, S. G. et al., 1-Methyl-DL-tryptophan, β-(3-	$\dagger$
		Benzofuranyl)-DL-alanine (the Oxygen Analog of Tryptophan),	
		and β-[3-Benzo(b)thienyl]-DL-alanine (the Sulfur Analog of	
		Tryptophan) are competitive inhibitors of Indoleamine 2,3-	
		Dioxygenase, <i>Arch. Biochem. Biophys.</i> , <b>291</b> , 326-333, 1991	
	27	CELLA, M. et al., Ligation of CD40 on dendritic cells triggers	1
	- '	production of high levels of interleukin-12 and enhances T cell	
		stimulatory capacity:T-T help via APC activation, <i>J. Exp. Med.</i> ,	
		<b>184</b> , 747-752, 1996	
	28	CELLA, M. et al., Plasmacytoid monocytes migrate to inflamed	<del> </del>

sign (+) inside this box

+ PTO/SB/O8A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449APTO					Complete if Known			
					Application Number	10/660,131		
INIC	ODA	A A TI	<b>SAL F</b>	JIECT VELIBE	Filing Date	September 11, 2003		
INFORMATION DISCLOSURE					First Named Inventor	David H. Munn		
STA	ATE	VIEN	ГВҮ	APPLICANT	Group Art Unit	Unassigned		
					Examiner Name	Unassigned		
(use as many sheets as necessary)					Attorney Docket Number	M0351-287806		
Sheet	3	of	9		Express Mail Certificate	EV 127 541 682 US		

		lymph nodes and produce large amounts of type I interferon, <i>Nature Medicine</i> , <b>5</b> , 919-923, 1999	
	29	CHEN, S., et al, In vivo inhibition of CC and CX3C	
		Chemokine-induced Leukocyte infiltration and attenuation of	
		glomerulonephritis in Wistar-Kyoto (WKY) rats by vMIP-II, <i>J</i> .	
		Exp. Med., 188: 193-198 (1998)	
	30	CHEN, W. et al., TGF-β released by apoptotic T cells	
		contributes to an immunosuppressive milieu, <i>Immunity</i> , <b>22</b> :14,	
		715-725, 2001	
	31	COBBOLD, S. et al., Infectious tolerance, Curr. Opin.	
	00	Immunol., <b>10</b> , 518-524, 1998	
	32	CORNILESCU, G. et al., Protein backbone angle restraints	
		from searching a database for chemical shift and sequence	
	22	homology, J. Biomol. NMR, 13: 289-302, 1999	
·	33	CURIEL, T. J. et al., Tumor immunotherapy: inching toward the	
	34	finish line, J. Clin. Invest., 109, 311-312, 2002	
	34	DHODAPKAR, M. V. et al., Mature dendritic cells boost functionally superior CD8 <sup>+</sup> T-cell in humans without foreign	
		helper epitopes, <i>J. Clin. Invest.</i> , <b>105</b> , R9-R14, 2000	
	35	DHODAPKAR, M. V. et al., Antigen-specific inhibition of	
	33	effector T cell function in humans after injection of immature	
		dendritic cells, <i>J. Exp. Med.</i> , <b>193</b> , 233-238, 2001	
	36	DOAN, T. et al., Peripheral tolerance to human papillomavirus	
		E7 oncoprotein occurs by cross-tolerization, is largely Th-2-	
		independent, and is broken by dendritic cell immunization,	
		Cancer Res., <b>60</b> , 2810-2815, 2000	
	37	DONG et al., B7-H1, a third member of the B7 family, co-	
		stimulates T-cell proliferation and interleukin-10 secretion,	
		Nature Med., <b>5</b> , 1365-1369, 1999	
	38	DZIONEK, A. et al., BDCA-2, BDCA-3, and BDCA-4: Three	
		markers for distinct subsets of dendritic cells in human	
		peripheral blood, <i>J. Immunol.</i> , <b>165</b> , 6037-6046, 2000	
	39	FACCHETTI, F. et al., Plasmacytoid monocytes (so-called	
	}	plasmacytoid T cells) in Hodgkin's disease, J. Pathol., 158, 57-	
		65, 1989	
	40	FALLARINO, F. et al., Functional expression of indoleamine	
		2,3-dioxygenase by murine CD8α <sup>+</sup> dendritic cells, <i>Internat</i>	
	<u> </u>	Immunol., 14(1),65-68, 2002	
	41	FIOCCHI, C., TGF-β/Smad signaling defects in inflammatory	
	<u> </u>	bowel disease: mechanisms and possible novel therapies for	

sign (+) inside this box

+ PTO/SB/O8A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449APTO					Complete if Known			
					Application Number	10/660,131		
INFORMATION DICCLOCUDE					Filing Date	September 11, 2003		
INFORMATION DISCLOSURE					First Named Inventor	David H. Munn		
ST	ATE	MEN.	L BA	' APPLICANT	Group Art Unit	Unassigned		
			4 4		Examiner Name	Unassigned		
(use as many sheets as necessary)				as necessary)	Attorney Docket Number	M0351-287806		
Sheet	4	of	9		Express Mail Certificate	EV 127 541 682 US		

	chronic inflammation   Clin Invest 409 522 526 2004	
40	chronic inflammation, <i>J. Clin. Invest.,</i> <b>108</b> , 523-526, 2001	
42	GALLUCCI, S. et al., Natural adjuvants: Endogenous activators of dendritic cells, <i>Nat. Med.</i> , <b>5</b> , 1249-1255, 1999	
43	GORCZYNSKI, R. et al., Dendritic cells expressing TGFβ/IL-	
	10, and CHO cells with OX-2, increase graft survival,	
	Transplantation Proceedings, 33, 1565-1566, 2001	
44	GROHMANN, U. et al., IL-6 inhibits the tolerogenic function of	
	CD8α <sup>+</sup> dendritic cells expressing indoleamine 2,3-dioxygenase,	
	J. Immunol., <b>167</b> , 708-714, 2001	
45	GROUARD, G. et al., The enigmatic plasmacytoid T cells	
	develop into dendritic cells with interleukin (IL)-3 and CD40-	
	ligand, J. Exp. Med., <b>185</b> , 1101-1111, 1997	
46	HEISER, A. et al., Autologous dendritic cells transfected with	
	prostate-specific antigen RNA stimulate CTL responses	
	against metastatic prostate tumors, <i>J. Clin. Invest.</i> , <b>109</b> , 409-	
	417, 2002	
47	HONEY, K. et al., Dominant regulation: a common mechanism	
	of monoclonal antibody induced tolerance?, <i>Immunol. Res.</i> ,	
	<b>20</b> , 1-14, 1999	
48	HORUZSKO, A. et al., Maturation of antigen presenting cells is	
	compromised in HLA-G transgenic mice, Internat Immunol.,	
	<b>13</b> ,385-394, 2001	
49	HWU, P. et al., Indoleamine 2,3-Dioxygenase production by	
	human dendritic cells results in the inhibition of T cell	
	proliferation, <i>J. Immunol.</i> , <b>164</b> :3596-3599, 2000	
50	IWASAKI, A. et al., Localization of distinct peyer's patch	
	dendritic cell subsets and their recruitment by chemokines	
	macrophage inflammatory protein (MIP)-3α, MIP-3β, and	
	secondary lymphoid organ chemokine, J. Exp. Med., 191,	
	1381-1393, 2000	
51	JONULEIT, H. et al., Pro-inflammatory cytokines and	-
	prostaglandins induce maturation of potent immunostimulatory	
	dendritic cells under fetal calf serum-free conditions, Eur. J.	
	Immunol., <b>27</b> , 3135-3142, 1997	
52	JONULEIT, H. et al., Dendritic cells as a tool to induce anergic	
	and regulatory T cells, Trends Immunol., 22, 394-400, 2001	
53	KIKUCHI, T. et al., Dendritic cells modified to express CD40	
	ligand elicit therapeutic immunity against preexisting murine	
	tumors, <i>Blood</i> , <b>96</b> , 91-99, 2000	
54		
	ligand elicit therapeutic immunity against preexisting murine	

sign (+) inside this box

PTO/SB/O8A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute fo	or form 1	149APTO	,		Complete if Known		
Cabalitato i	J. 101111 1	, , , , , , ,			Application Number	10/660,131	
INIE	- O D F	4 A T1	ON.	DISCLOSURE	Filing Date	September 11, 2003	
					First Named Inventor	David H. Munn	
ST	ATE.	MEN.	T B	Y APPLICANT	Group Art Unit	Unassigned	
					Examiner Name	Unassigned	
	(use	as man	y snee	s as necessary)	Attorney Docket Number	M0351-287806	
Sheet	5	of	1 9		Express Mail Certificate	EV 127 541 682 US	

		the immune response, <i>Trends in Immunol.</i> , <b>22</b> , 502-509, 2001	
	55	KUDO, Y. et al., Human placental indoleamine 2,3-	
		dioxygenase: cellular location and characterization of an	
		enzyme preventing fetal rejection, Biochem, Biophys. Acta,	
		<b>1500</b> , 119-124, 2000	
7*	56	LEE et al., Tryptophan deprivation sensitizes activated T cells	
		to apoptosis prior to cell division, <i>Immunol.</i> , <b>107</b> : 452-460	
		(2002)	
	57	LIU, Y. J., Dendritic cell subsets and lineages, and their	
		functions in innate and adaptive immunity, Cell, 106, 259-262,	
		2001	
	58	MALOY, K. G. et al., Regulatory T cells in the control of	
		immune pathology, Nature Immunol., 2, 816-822, 2001	
	59	MELLOR, A.L. et al., Prevention of T cell-driven complement	
		activation and inflammation by tryptophan catabolism during	
		pregnancy, <i>Nat. Immunol.</i> <b>2</b> : 64-68 (2001)	
	60	MELLOR, A. L. et al., Cells expressing indoleamine 2,3-	
		dioxygenase inhibit T cell responses, J. Immunol., 168, 3771-	
		3776, 2002	
	61	MIKI, T. et al., Blockade of tryptophan catabolism prevents	
		spontaneous tolerogenicity of liver allografts, <i>Transplantation</i>	
		Proceedings, 33, 129-130, 2001[	
	62	MULLER, A. et al, Involvement of chemokine receptors in	
		breast cancer metastasis, Nature, 410: 50-56, 2001	
	63	MUNN, D. H. et al., Prevention of allogeneic fetal rejection by	
		tryptophan catabolism, Science, 281, 1191-1193, 1998	
	64	MUNN, D. H. et al., Potential regulatory function of human	
		dendritic cells expressing indoleamine 2,3-dioxgenase,	
		Science, <b>297</b> , 1867-1870, 2002	
	65	MUNN, D. H. et al., Inhibition of T cell proliferation by	
		macrophage tryptophank catabolism, <i>J. Exp. Med.,</i> <b>189</b> , 1363-	
		1372, 1999	
	66	NEUHAUS, D. et al, The Nuclear Overhauser Effect in	
		Structural and Conformational Analysis, VCH New York,	
		Chapter 8, The Two- Dimensional NOESY Experiment, 1989,	
		pp. 253-305	
	67	OCHSENBEIN, A. F. et al., Roles of tumour localization,	
		second signals and cross priming in cytotoxic T-cell induction,	
		Nature, <b>411</b> , 1058-1064, 2001	
	68	OLWEUS, J. et al., Dendritic cell ontogeny: A human dendritic	

sign (+) inside this box

+ Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute fo	Substitute for form 1449APTO				Complete if Known		
V					Application Number	10/660,131	
INIE	ODA	8 A T14	ON F	DISCLOSURE	Filing Date	September 11, 2003	
					First Named Inventor	David H. Munn	
ST	ATE	MEN.	T BY	APPLICANT	Group Art Unit	Unassigned	
(use as many sheets as necessary)					Examiner Name	Unassigned	
					Attorney Docket Number	M0351-287806	
Sheet	6_	of	9		Express Mail Certificate	EV 127 541 682 US	

 т		
	cell lineage of myeloid origin, <i>Proc. Natl. Acad. Sci. USA,</i> <b>94</b> , 12551-12556, 1997	
69	PALCZEWSKI, K. et al., Crystal structure of rhodopsin: A G protein—coupled receptor, Science 289: 739-745, 2000	
70	PICKL, W. F. et al., Molecular and functional characteristics of dendritic cells generated from highly purified CD14 <sup>+</sup> peripheral blood monocytes, <i>J. Immunol.</i> , <b>157</b> , 3850-3859, 1996	
71	PIOTTO, M. et al, Gradient-tailored excitation for single-quantum NMR spectroscopy of aqueous solutions, <i>J. Biomol. NMR.</i> , <b>2:</b> 661-665, 1992	
72	REDDY, A. et al., A monocyte conditioned medium is more effective than defined cytokines in mediating the terminal maturation of human dendritic cells, <i>Blood</i> , <b>90</b> , 3640-3646, 1997	
73	RIDGE, J. P. et al., A conditioned dendritic cell can be a temporal bridge between a CD4 <sup>+</sup> T-helper and a T-killer cell, <i>Nature</i> , <b>393</b> , 474-478, 1998	))
74	SAKAGUCHI, S., Regulatory T cells: key controllers of immunologic self-tolerance, <i>Cell</i> , <b>101</b> , 455-458, 2000	
75	SALI, A. et al., Definition of general topological equivalence in protein structures, <i>J. Mol. Biol.</i> , <b>212</b> , 403-428, 1990	
76	SCHOENBERGER, S. P. et al., T-cell help for cytotoxic T lymphocytes is mediated by CD40-CD40L interactions, <i>Nature</i> , <b>393</b> , 480-483, 1998	
77	SHEVACH, E. M., Certified professionals: CD4+CD25+ suppressor T cells, <i>J. Exp. Med.,</i> <b>193</b> , F41-F45, 2001	
78	SHORTMAN, K. et al., Immunity or tolerance? That is the question for dendritic cells, <i>Nature Immunol.</i> , <b>2</b> , 988-989, 2001	
79	SHORTMAN, K. et al., Mouse and human dendritic cell subtypes, <i>Nature Reviews: Immunology, 2</i> , 151-161, 2002	
80	SMYTH, M. J., et al., A fresh look at tumor immunosurveillance and immunotherapy, <i>Nature</i> , <b>2</b> , 293-298, 2001	
81	SOTOMAYER, E. J. et al., Cross-presentation of tumor antigens by bone marrow-derived antigen-presenting cells is the dominant mechanism in the induction of T-cell tolerance during B-call lymphoma progression, <i>Blood</i> , <b>98</b> , 1070-1077, 2001	
82	SOZZANI, S. et al., The role of chemokines in the regulation of dendritic cell trafficking, <i>J. Leukocyte Biol.</i> , <b>66</b> , 1-9, 1999	
83	SPATOLA, A.F. et al, Rediscovering an endothelin antagonist	

sign (+) inside this box

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute fo	or form 14	149APTO			Con	nplete if Known
Cabolitais 70					Application Number	10/660,131
INIE		4 A T I	ON I	DISCLOSURE	Filing Date	September 11, 2003
					First Named Inventor	David H. Munn
ST	ATE	MEN.	T BY	'APPLICANT	Group Art Unit	Unassigned
					Examiner Name	Unassigned
(use as many sheets as necessary)					Attorney Docket Number	M0351-287806
Sheet	7	of	19	I	Express Mail Certificate	EV 127 541 682 US

	(BQ-123): a self-deconvoluting cyclic pentapeptide library, <i>J. Med. Chem.</i> , <b>39</b> : 3842-3846, 1996
84	SPATOLA, A.F., Chemistry and Biochemistry of Amino Acids, Peptides, and Proteins, ed. B. Weinstein et al, New York, Vol. VII, pp. 267-357, 1983
85	STAVELEY-O'CARROLL, K. et al., Induction of antigen- specific T cell anergy: An early event in the course of tumor progression, <i>Proc. Natl. Acad. Sci. USA</i> , <b>95</b> , 1178-1183, 1998
86	SUMMERS, K. L. et al., Phenotypic characterization of five dendritic cell subsets in human tonsils, <i>Am. J. Pathol.</i> , <b>159</b> , 285-295, 2001
. 87	SUTMULLER, R. P. M. et al., Synergism of cytotoxic T lymphocyte-associated antigen 4 blockade and depletion of CD25 <sup>+</sup> regulatory T cells in antitumor therapy reveals alternative pathways for suppression of autoreactive cytotoxic T lymphocyte responses, <i>J. Exp. Med.</i> , <b>194</b> , 823-832, 2001
88	SZABOLCS, P. et al., Dendritic cells and macrophages can mature independently from a human bone marrow-derived, post-colony-forming unit intermediate, <i>Blood</i> , <b>87</b> , 4520-4530, 1996
89	TARAZONA, R. et al, Effects of different antigenic microenvironments on the course of CD8+ T cell responses in vivo, <i>Int. Immunol.</i> , <b>8</b> , 351-358, 1996
90	TAYLOR, M. W. et al., Relationship between interferon-γ, indoleamine 2,3-dioxygenase, and tryptophan catabolism, <i>FASEB J.</i> , <b>5</b> , 2516-2522, 1991
91	THOMPSON, A. W. et al., Are dendritic cells the key to liver transplant tolerance?, <i>Immunol. Today</i> , <b>20</b> , 27-31, 1999
92	TODRYK, S., A sense of tumour for the immune system, /mmunol., 107, 1-4, 2002
93.	van ELSAS, A. et al., Combination immunotherapy of B16 melanoma using anti-cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) and granulocyte/macrophage colony-stimulating factor (GM-CSF)-producing vaccines induces rejection of subcutaneous and metastatic tumors accompanied by autoimmune depigmentation, <i>J. Exp. Med.</i> , <b>190</b> , 355-366, 1999
94	van ELSAS, A. et al., Elucidating the autoimmune and antitumor effector mechanisms of a treatment based on cytotoxic T lymphocyte antigen-4 blockade in combination with

sign (+) inside this box

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute fo	or form 14	First Named Inventor   David H. Milinn				
Oubbille.		. ,,,,,,,,,,			Application Number	10/660,131
INIC		4 A T I	ON	NICCI OCUBE	Filing Date	September 11, 2003
			First Named Inventor	David H. Munn		
ST	ATE	MEN.	T B	APPLICANT	Group Art Unit	Unassigned
	INFORMATION DISCLOSURI STATEMENT BY APPLICANT		Examiner Name	Unassigned		
	(use	as man	/ sneet	s as necessary)	Attorney Docket Number	M0351-287806
Sheet	8	of	T 9		Express Mail Certificate	EV 127 541 682 US

	a B16 melanoma vaccine: comparison of prophylaxis and	_
	therapy, J. Exp. Med., 194, 481-489, 2001	
95	VARONA, R. et al., CCR6-deficient mice have impaired leukocyte homeostasis and altered contact hypersensitivity	
	and delayed-type hypersensitivity responses, <i>J. Clin. Invest.</i> , <b>107</b> , R37-R45, 2001	
96	WALDMANN, H. et al., Regulating the immune response to transplants: a role for CD4 <sup>+</sup> regulatory cells?, <i>Immunity</i> , <b>14</b> , 399-406, 2001	
97	WISHART, D.S. et al., 1H, 13C and 15N chemical shift referencing in biomolecular NMR, <i>J. Biomol. NMR</i> , <b>6</b> , 135-140, 1995	
98	YANG, D. et al., Cutting edge: Immature dendritic cells generated from monocytes in the presence of TGF-β1 express functional C-C chemokine receptor 6, <i>J. Immunol.</i> , <i>163</i> , <i>1737-1741</i> , <i>1999</i>	
99	ZLOTNIK, A. et al., Chemokines: a new classification system and their role in immunity, <i>Immunity</i> , <b>12</b> , 121-127, 2000	
100	MORITA, Y. et al., Dendritic cells genetically engineered to express IL-4 inhibit murine collagen-induced arthritis, <i>J. Clin. Invest.</i> , <b>107</b> , 1275-1284, 2001	
101	MORSE, M.A. et al., Technology evaluation: Theratope, Biomira Inc., <i>Curr. Opin. Mol. Ther.,</i> Aug <b>2(4</b> ):453-458, 2000	
102	MORSE, M. A. et al., Clinical applications of dendritic cell vaccines, <i>Current Opinion in Molecular Therapeutics</i> , <b>2(1)</b> :20-28, 2000	
103	NAIR, S. K. et al., Induction of carcinoembroyonic antigen (CEA)-specific cytotoxic T-lymphocyte responses <i>in</i> vitro using autologous dendritic cells loaded with CEA peptide or CEA RNA in patients with metastic malignancies expressing CEA, <i>Int. J. Cancer</i> , <b>82</b> , 121-124, 1999	
104	POLUEKTOVA, L. Y. et al., Generation of cytotoxic T cells against virus-infected human brain macrophages in a murine model of HIV-1 encephalitis, <i>J Immunol.</i> , <b>168</b> :3941-3949, 2002	
105	RONCAROLO, M. G. et al., Differentiation of T regulatory cells by immature dendritic cells, <i>J. Exp. Med.</i> , <b>193</b> , F5-F9, 2001	
106		

PTO/SB/O8A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute f	or form 1449APTO	Complete if Known		
Out out of		Application Number	10/660,131	
l inii	FORMATION DISCLOSURE	Filing Date	September 11, 2003	
		First Named Inventor	David H. Munn	
ST	ATEMENT BY APPLICANT	Group Art Unit	Unassigned	
	(	Examiner Name	Unassigned	
	(use as many sheets as necessary)	Attorney Docket Number	M0351-287806	
Sheet	9 of 9	Express Mail Certificate	EV 127 541 682 US	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant. Unique citation designation number. Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.